

Exhibit 1
to Declaration of
Kirk R. Daffner, MD

CURRICULUM VITAE

Date Revised: October 2020

Name: Kirk R. Daffner, MD, FAAN

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Place of Birth: New York, New York

Education

1978	B.A.	Harvard College, Cambridge, MA
1984	M.D.	Harvard Medical School, Boston, MA

Postdoctoral Training

1984-1985	Intern	Medicine	Beth Israel Hospital (BIH), Boston, MA
1985-1987	Jr. and Sr. Resident	Neurology	Harvard Longwood Area Program
1987-1988	Chief Resident	Neurology	Harvard Longwood Area Program
1988-1990	Fellow	Behavioral Neurology	BIH, Boston, MA

Faculty Academic Appointments

1985-1988	Clinical Fellow	Neurology	Harvard Medical School (HMS)
1988-1995	Instructor	Neurology	HMS
1995-2001	Assistant Professor	Neurology	HMS

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2001-2011	Associate Professor	Neurology	HMS
2011-	J. David and Virginia Wimberly Professor	Neurology	HMS

Appointments at Hospitals/Affiliated Institutions

1988-1994	Attending Neurologist	Neurology	BIH
1989-1992	Consulting Neurologist	Neurology	Metropolitan State Hospital
1992	Consulting Neurologist	Neurology	Cambridge City Hospital (CCH)
1994-2012	Associate Neurologist	Neurology	Brigham and Women's Hospital (BWH)
1994-	Associate in Psychiatry	Psychiatry	BWH
1997-2010	Clinical Associate	Neurology	Massachusetts General Hospital (MGH)
2004-	Consulting Neurologist	Neurology	Dana-Farber Cancer Institute
2004-	Consulting Neurologist	Neurology	Faulkner Hospital
2012-	Senior Neurologist	Neurology	BWH

Major Administrative Leadership Positions

1994-	Director, Brigham Behavioral Neurology Group	BWH
1994-	Co-Director, Memory Disorders Unit	BWH
1996-	Chief, Division of Cognitive and Behavioral Neurology	BWH
2009-	Director, Center for Brain/Mind Medicine	BWH
2016-	Stephen Muss Clinical Director, Alzheimer Center	BWH

Committee Service**Local**

1997	Quality Assurance Committee	Department of Neurology, BWH
1997-2006	Clinical Investigation Committee Research Council	BWH
1998-2000	Clinical Research Committee, Partners Program in Alzheimer's and Other Neurodegenerative Diseases	BWH
1998-	Chairman, Credentialing Committee	Department of Neurology, BWH
1998-	Hospital Credentialing Committee	BWH

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2006-2013	Finance Committee, Brigham and Women's Physician Organization	Department of Neurology, BWH
2008-	Clinical Neuroscience Initiatives	BWH
2008	Search Committee, Director of Epilepsy Research	Department of Neurology, BWH
2009	Search Committee, Staff Neuro-ophthalmologist	Department of Neurology, BWH
2014-2016	Physician Recognition Awards Committee	Brigham and Women's Physicians Organization (BWPO)
2015-2018	Standing Committee on Promotions, Reappointments, and Appointments,	HMS
Regional		
1996-2008	Board of Directors	Hydrocephalus Foundation
2018-	Medical and Scientific Advisory Committee	Alzheimer's Association, Massachusetts/New Hampshire Chapter
National		
2006-2013	Abstract Review Committee Behavioral Neurology	Annual Meeting of the American Academy of Neurology
2007-2016	Selection Committee Norman Geschwind Prize in Behavioral Neurology	American Academy of Neurology
2007-2011		Member
2012-2016		Chairman
2008-2009	Executive Committee Councilor Behavioral Neurology Section	American Academy of Neurology
2009-2011	Executive Committee Behavioral Neurology Section	American Academy of Neurology
2009-2011		Vice-Chairman
2011-2013		Chairman
2010-2014	Topic Work Group: Aging, Dementia, and Cognitive Neurology	American Academy of Neurology
2016-	Abstract Review Committee Behavioral Neurology	Annual Meeting of the American Academy of Neurology
<u>Professional Societies</u>		
1984-	Massachusetts Medical Society	Member
1989-	Boston Society of Neurology and Psychiatry	Member

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1990-	American Academy of Neurology	
	1990-2011	Member
	2011-	Fellow
1990-	Society of Behavioral and Cognitive Neurology	
	1990-	Member
	2008-2009	Officer
	2009-2011	President-Elect
	2011-2013	President
1994-	Society for Neuroscience	Member
1995-	Cognitive Neuroscience Society	Member
2003-	American Neurological Association	Member
2017-	American Neuropsychiatry Association	Member

Grant Review Activities

2006-2009	Grant Review Committee	National Institute on Aging
	Neuroscience of Aging	
2006-	Grant Review Committee	Alzheimer's Association
2009	Vici Grant Review Committee	The Netherlands Organization for Scientific Research

Editorial Activities**Editorial Boards**

2009-	Editorial Board	<i>Journal of Cognitive Neuroscience</i>
2010-	Associate Editor	<i>Journal of Alzheimer's Disease</i>
2018-	Associate Editor	<i>Journal of Neuropsychiatry and Clinical Neurosciences</i>

Ad hoc Reviewer

- *Annals of Neurology*
- *Brain*
- *Cerebral Cortex*
- *Clinical Neurology and Neurosurgery*
- *Clinical Neurophysiology*
- *Cortex*
- *Human Brain Mapping*
- *Journal of Clinical and Experimental Neuropsychology*
- *Journal of Neurology, Neurosurgery, and Psychiatry*
- *Journal of Psychophysiology*

- *Neurobiology of Aging*
- *Neurology*
- *Neuropsychiatry, Neuropsychology, and Behavioral Neurology*
- *Neuropsychology*
- *Neuroscience & Biobehavioral Reviews*
- *New England Journal of Medicine*
- *Psychophysiology*
- *Stroke*

Honors and Prizes

1974-1978	Honorary National Scholar	Harvard College
1978	Magna Cum Laude	Harvard College
1978	Phi Beta Kappa	Harvard College
1980-84	Harvard Graduate National Scholar	Harvard College
2003	Elected Fellow (FANA)	American Neurologic Association
2009	Partners in Excellence Award	Partners HealthCare
2011	Elected Fellow (FAAN)	American Academy of Neurology
2013	James S Winshall Leadership Award	Brigham and Women's Physician Organization
2016	Distinguished Clinician Award	Brigham and Women's Hospital
2018	Lifetime Achievement Award	Society for Behavioral and Cognitive Neurology

Report of Funded and Unfunded Projects

Funding Information

Past Funding

1990-1991	Measurement of diminished curiosity and visual exploration in Alzheimer's patients Alzheimer's Association Principal Investigator
1991-1992	Selective attention in AD as measured by eye movement recordings Alzheimer's Association Co-Investigator (PI: L.F.M. Scinto, Ph.D.)
1993-1994	Neurology of attention and neglect: A network approach NIH (R01) Co-Investigator (PI: M. Mesulam, M.D.)
1994-2000	The neurology of novelty-seeking behavior and curiosity NIH (K-20)

Principal Investigator

1995-1998 Pupillary dilation as a diagnostic test for Alzheimer's disease
Johnson & Johnson
Co-Principal Investigator

1996-1997 Multi-center drug trial of milameline for patients with probable Alzheimer's disease
Parke-Davis Research Division
BWH Site Principal Investigator

1996-1998 Tolerability, efficacy, and safety of galantamine in the treatment of AD
Janssen Research Foundation
BWH Site Co-Principal Investigator

1998-2000 Placebo controlled evaluation of galantamine in the treatment of AD
Janssen Research Foundation
BWH Site Co-Principal Investigator

2000-2001 Detecting cognitive decline in high functioning elders
Charles H. Farnsworth Trust
Co-Investigator (PI: D. Rentz, Psy.D.)

2000-2005 Face-name association: fMRI studies in aging and mild AD
NIH
Advisor (K23 Award, R. Sperling, M.D.)

2000-2006 Memory distortion in AD
NIH
Advisor (K23 Award, A. Budson, M.D.)

2001-2002 ERP investigations of automatic vs. voluntary attention to novel events
Foundation for Neurologic Diseases
Principal Investigator

2001-2002 Predicting mild cognitive impairment in highly intelligent elders
Charles H. Farnsworth Trust
Co-Investigator (PI: D. Rentz, Psy.D.)

2001-2004 A randomized double blind placebo-controlled trial to evaluate the efficacy and safety of galantamine in subjects with mild cognitive impairment
Janssen Research Foundation
BWH Site Co-Principal Investigator

2002-2003 Detecting mild cognitive impairment in community dwelling elders
Charles H. Farnsworth Trust
Co-Investigator (PI: D. Rentz, Psy.D.)

2002-2006 Emotional stimulus processing in normal aging and mild AD
NIH
Advisor (K23 Award, C. Wright, M.D.)

- 2002-2008 ERP investigations of novelty processing in aging and AD
NIA (R01)
Principal Investigator
- 2002-2007 A multi-center, randomized, placebo-controlled trial of simvastatin to slow the progression of AD
NIH/ADCS, Sponsored Multi-Center Trial
Sub-Investigator (BWH Site PI: R. Sperling, M.D.)
- 2003-2005 Fluency, familiarity, and false recognition in AD
NIH
Advisor (NRSA Award, D. Wolk, M.D.)
- 2004-2008 A phase III study of the efficacy and safety of Alzhemed in patients with mild to moderate Alzheimer's disease
Neurochem, Inc.
Sub-Investigator (BWH Site PI: R. Sperling, M.D.)
- 2005-2006 ERP correlates of encoding and retrieval in mild cognitive impairment and AD
Harvard Center for Neurodegeneration and Repair
Advisor (PI: David Wolk, M.D.)
- 2007-2010 A phase III randomized, double-blind, placebo controlled trial of the effects of docosahexaenoic acid (DHA) in slowing the progression of Alzheimer's disease
NIH/ADCS Sponsored Multi-Center Trial
Sub-Investigator (BWH Site PI: G. Marshall, M.D.)
- 2005-2010 Alzheimer's Disease Neuroimaging Initiative (ADNI): A multi-center, non-treatment, non-randomized natural history longitudinal follow-up study of imaging, cerebrospinal fluid, and serum biomarkers in AD, mild cognitive impairment, and normal elderly
NIH/ADCS Sponsored Multi-Center Trial
Sub-Investigator (BWH Site PI: R. Sperling, M.D.)
- 2005-2011 A phase II, multicenter, open-label, long-term treatment study to determine the safety, tolerability, and efficacy of bapineuzumab (ELN115727) in patients with Alzheimer's disease who participated in study AAB-001-201 or AAB-001-102 (US).
Janssen Alzheimer Immunotherapy
Sub-Investigator (BWH Site PI: Gad Marshall, M.D.)
- 2008-2015 ERP investigations of novelty processing in different patterns of cognitive aging
NIA (R01) 5R01AG017935-07
Principal Investigator
- 2013-2014 Successful aging after 65
Kamprad Foundation, Sweden
Principal Investigator (US)

Current Funding

- 2016- Developing TMS as a novel therapeutic for Alzheimer's disease
Private Donor

Co-PI

This study aims to examine neural circuits underlying apathy in patients with AD and evaluate rTMS's ability to improve behavioral activation in AD patients.

2016-

The Brain Health Champion study: promoting non-pharmacological interventions in cognitive disorders.

The Alzheimer Innovation Fund, BWH

Co-I

This study aims to investigate novel ways to augment brain-healthy behaviors in patients with subjective cognitive decline, MCI, or early dementia

Report of Local Teaching and Training

Formal Teaching of Residents, Clinical Fellows, and Research Fellows (postdoctorates)

1988-1994	Coordinator, Clinical Rotation, Behavioral Neurology Unit 1-2 rotators/month	BIH 5 hours/week
1990-1994	Coordinator, Clerkship in Behavioral Neurology 6 students/year	BIH 5 hours/week
1991-1994	Ward or Consult Attending Neurologist 2-4 residents; 2-4 medical students	BIH >100 hours/year
1994-2012	Ward or Consult Attending Neurologist 2-4 residents; 2-4 medical students	BWH >100 hours/year
1994-	Outpatient Attending Neurologist 1-2 behavioral neurology/neuropsychiatry fellows	BWH >75 hours/year
2000-	Attending Neurologist, Cognitive and Behavioral Neurology, Clinical Rotation Rotating senior residents	BWH 40 hours/year
2004-2008	Attending Neurologist, Cognitive and Behavioral Neurology Subspecialty Resident's Clinic 1-2 residents	BWH 15 hours/year
2013-	Supervisor HMS/BWH Medical Student Rotation in Behavioral Neurology/Neuropsychiatry	20 hours/year

Clinical Supervisory and Training Responsibilities

1989-1996	Discussant, Monthly Clinical Case Conference/Department of Psychiatry/CCH	25 hours/year
1990	Lecturer, Division of Child Psychiatry/CCH	5 hours/year

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1990-1998	Lecturer, Psychiatry Residency Training Program/CCH	5 hours/year
1991	Lecturer, Medical Residency Training Program/BIH	5 hours/year
1991	Discussant, Neuropsychology Case Conference/Massachusetts Mental Health Center (MMHC)	5 hours/year
1991-1994	Lecturer, Behavioral Neurology Unit In-Service Training Program/BIH	20 hours/year
1993	Lecturer/Longwood Neurology Residency In-Service Training	5 hours/year
1993-1995	Lecturer, Psychiatry Residency Training Program/MGH	5 hours/year
1994	Lecturer, Medicine Training Program/BWH	5 hours/year
1994-	Director, Fellowship Program in Behavioral Neurology/Neuropsychiatry/BWH	100 hours/year
1996-	Lecturer, Division of Cognitive and Behavioral Neurology Training Program/BWH	25 hours/year
1997-	Lecturer, Teaching series in Neuropsychology/MMHC	5 hours/year
1998	Lecturer/Longwood Neurology Residency In-Service Training	5 hours/year
1999-2012	Lecturer/Harvard-Partners Neurology Training Program	5 hours/year
2000-2002	Lecturer, Medicine Training Program/BWH	5 hours/year
2002-2010	Lecturer, Harvard-Longwood Psychiatry Training Program	5 hours/year
2015-2018	Lecturer, Harvard-Longwood Psychiatry Training Program	3 hours/year
2019-	Lecturer, BWH Psychiatry Training Program	2 hours/year

Formally Supervised Trainees**Postdoctoral Trainees—Neurology**

Duration of Training	Name	Current Position
1994-1995	Francisco Vale, MD	Professor, University of Ribeirao, Preto, San Paulo, Brazil

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1995-1997	Reisa Sperling, MD	Professor, HMS Director, Center for Alzheimer Research and Treatment, BWH
1997-1999	Andrew Budson, MD	Professor, BU School of Medicine Associate Director for Research, BU Alzheimer's Disease Center
1997-1999	Diler Acar, MD	Assistant Professor, HMS Staff Neurologist, BWH
1999-2000	Zeina El-Chemali, MD	Associate Professor, HMS Director, Neuropsychiatry Service, MGH
1998-2000	Peter Morin, MD, PhD	Assistant Professor, BU School of Medicine
1999-2001	Chris Wright, MD, PhD	Lecturer, HMS Staff Neurologist, BWH
2002-2004	David Wolk, MD	Associate Professor, University of Pennsylvania School of Medicine
2003-2005	Bradford Dickerson, MD	Professor, HMS Director of the MGH FTD Unit
2005-2007	Jeremiah Scharf, MD	Assistant Professor, HMS Staff Neurologist, BWH
2006-2008	Scott McGinnis, MD	Assistant Professor, HMS Staff Neurologist, BWH
2009-2011	Kimiko Domoto-Reilly, MD	Assistant Professor of Neurology University of Washington
2010-2014	David Perez, MD	Assistant Professor of Neurology, HMS Staff Neurologist, MGH
2012-2014	Seth Gale, MD	Instructor, HMS Staff Neurologist, BWH
2013-2015	Maiya Geddes, MD, PhD	Assistant Professor of Neurology and Neurosurgery Clinician Scientist, McGill University
2014-2015	Abid Qureshi, MD	Assistant Professor, Neurology University of Kansas Medical Center
2014-2015	Fabio Porto, MD	Neurologist, Clínica Neurológica Nitrini e Associados, Sao Paulo, Brazil
2016-2018	Hyun-Sik Yang, MD	Instructor, HMS Staff Neurologist, BWH
2017-2018	Michael Erkkinen, MD	Assistant Professor of Clinical Neurology Medical Director, UCSF Memory and Aging

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		Center
2018-2020	Jeremy Pruzin, MD	Behavioral Neurologist, Banner Alzheimer's Institute
2018-2020	Irina Skylar-Scott, MD	Clinical Assistant Professor of Neurology and Neurological Sciences, Stanford University
2019-	Andrew Stern, MD, PhD	Currently in Training
2020-	Jeffrey Maneval, MD	Currently in Training

Postdoctoral Trainees—Neuropsychiatry

Duration of Training	Name	Current Position
1994-1995	Chandlee Dickey, MD	Chief of Psychiatry, Schulich Medicine & Dentistry, Western University, London, Ontario
1995-1996	Bernard Vaccaro, MD	Assistant Professor, HMS
1998-1999	Melissa Frumin, MD	Assistant Professor, HMS Staff Psychiatrist, BWH
1999-2000	Zeina El-Chemali, MD	Associate Professor, HMS Director, Neuropsychiatry Service, MGH
2001-2002	Walter Knysz, MD	Director of CL Psychiatry, Henry Ford Hospital, Detroit, MI
2002-2003	Craig Surman, MD	Assistant Professor, HMS Scientific Coordinator, ADHD Program, MGH
2003-2005	Juan Carlos Urizar, MD	Instructor, HMS Staff Psychiatrist, BWH
2008-2009	Ottavio Vitolo, MD	Instructor, HMS Staff Psychiatrist, MGH
2009-2010	Fremonta Meyer, MD	Assistant Professor, HMS Staff Psychiatrist, Dana Farber Cancer Institute
2009-2010	Elizabeth LaSalvia, MD	Instructor, HMS Staff Psychiatrist, BIDMC
2011-2013	Shreya Raj, MD	Neuropsychiatry, Commonwealth Psychology, Newton-Wellesley, MA
2012-2015	Jessica Harder, MD	Instructor, HMS Staff Neuropsychiatrist, BWH

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2013-2015	Joe Trettel, MD, PhD	Director, Neuropsychiatry, The Ayer Neuroscience Institute, Hartford HealthCare Medical Group
2015-2017	Rebecca Allen, MD	Neuropsychiatrist, Seattle, WA
2017-2019	Aaron Hauptman, MD	Assistant Professor, HMS Child Neuropsychiatrist, Boston Children's Hospital
2018-	Geoffrey Raynor, MD	Instructor, HMS Associate Psychiatrist, BWH
2019-	Kristina Thurin, MD	Currently in Training
2020-	Rishab Gupta, MD	Currently in Training

Postdoctoral Trainees—Neuropsychology

Duration of Training	Name	Current Position
1999-2000	Chris Duis, PhD	Clinical Neuropsychologist, Atlanta, GA
2000-2001	Pam Friedman, PsyD	Instructor, HMS Staff Neuropsychologist, BWH
2000-2001	Cecilia Fernandez, PhD	Clinical Psychologist, Arlington, MA
2001-2002	Jeannine Mielke, PhD	Clinical Neuropsychologist, Gainesville, FL
2002-2003	Deborah Walder, PhD	Professor, Brooklyn College, NY
2002-2004	Michelle Imber, PhD	Instructor, HMS Staff Neuropsychologist, Spaulding Rehabilitation Hospital, Boston, MA
2002-2004	Jeff Sheer, PhD	Instructor, HMS Staff Neuropsychologist, Spaulding Rehabilitation Hospital, Boston, MA
2003-2004	Meghan Searl, PhD	Instructor, HMS Staff Neuropsychologist, BWH
2004-2006	Aaron Hervey, PhD	Staff Neuropsychologist, UCSD, CA
2004-2006	Lisa Blaskey, PhD	Staff Neuropsychologist, Children's Hospital of Philadelphia, PA
2006-2008	Rosa Davidsdottir, PhD	Instructor, HMS Staff Neuropsychologist, MGH
2006-2008	Tien Do, PhD	Staff Neuropsychologist, Graylands Hospital, Mount Claremont, Australia
2007-2008	Mary C. Putnam, PhD	Instructor, HMS Staff Neuropsychologist, MGH

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2008-2010	Lindsay Barker, PhD	Instructor, HMS Staff Neuropsychologist, BWH
2008-2010	Rebecca Amariglio, PhD	Assistant Professor, HMS Staff Neuropsychologist, BWH
2008-2010	Jessica Castelo, PhD	Clinical Neuropsychologist, Castelo Neuropsychology, Englewood, CO
2009-2011	Irene Tseretopoulos, PhD	Neuropsychologist/ Clinical Research Coordinator Brain Trauma Foundation, New York, NY
2009-2012	Jason Osher, PhD	Director of Neuropsychology Program, William James College, Newton, MA
2009-2012	Clare Humphreys, PhD	Clinical Neuropsychologist, The Counseling Center, Nashua, NH
2010-2012	Stephanie Assuras, PhD	Faculty, NYU-Rusk Institute of Rehabilitation Medicine, New York, NY
2011-2013	Kim Willment, PhD	Instructor, HMS Staff Neuropsychologist, BWH
2012-2013	Kathryn Papp, PhD	Assistant Professor, HMS Staff Neuropsychologist, BWH
2013-2015	Tom Laudate, PhD	Clinical Neuropsychologist, Tufts Medical Center, Boston, MA
2013-2015	Britt Carlson Emerton, PhD	Instructor, HMS Staff Neuropsychologist, MGH
2013-2015	Justin Centi, PhD	Neuropsychologist, Commonwealth Psychology Associates, Boston, MA
2013-2015	Carolina Posada, PhD	Clinical Neuropsychologist, Hartford Hospital, Hartford, CT
2014-2016	Chelsea Morse, PhD	Clinical Neuropsychologists, WellStar Hospital in Atlanta, GA
2014-2016	Maureen Daly, PhD	Clinical Neuropsychologist, Northwestern University, Chicago, IL
2015-2016	Rachel Orr, PsyD	Clinical Neuropsychologist, The Counseling Center, Nashua, NH
2015-2017	Alicia Janos, PhD	Clinical Neuropsychologist, Medical Psychology Center, Beverly, MA
2016-2018	Haley Duncanson, PhD	Director, Neuropsychology MGH Chelsea HealthCare Center

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2016-2018	Christina Kay, PhD	Instructor, HMS Staff Neuropsychologist, MGH
2016-2018	Deepti Putcha, PhD	Instructor, HMS Researcher, MGH Staff Neuropsychologist, BWH
2017-2019	Gretchen Reynolds, PhD	Instructor, HMS Staff Neuropsychologist, BWH
2017-2019	Ashley Simone, PhD	Clinical Neuropsychologist, Gaylord Hospital, Wallingford, CT
2018-2020	Lisa Obermeit, PhD	Currently in Training
2018-2020	Paula Aduen, PhD	Instructor, HMS Neuropsychologist, MGH
2019-	Lauren Bolden, PhD	Currently in Training
2019-	Katelyn Gettens, PhD	Currently in Training
2020-	Catherine Munro, PhD	Currently in Training
2020-	Margaret Cadden, PhD	Currently in Training

Predoctoral Trainees—Research Assistants

Duration of Training	Name	Current Position
1998-2001	Robert Faust, MD	Board Certified Internist, Lahey Clinic, Burlington, MA
2001-2002	Adam Weitzman, MD	Pain Management and Anesthesiology, South Bay Pain Doctors, Torrence, CA
2002-2003	Nathan Johnson	Graduate Student, Arizona State University
2003-2005	Katherine Ryan, PhD	Psychologist, Mental Health Associates, Portland, Maine
2003-2005	Danielle Williams, JD	Corporate Counsel (intellectual property law) at Art Technology Group, Boston, MA
2005-2007	Hyemi Chong, MD	Assistant Professor, Internal Medicine VA North Texas HealthCare
2005-2008	Jenna Riis, PhD	Public Health Department, NYC
2008-2010	Xue Sun, PhD	Postdoctoral student, neuroscience, U of Pennsylvania
2008-2011	Elise Tarbi, NP, MPH	Family Medicine, University of Vermont, Family Health, Burlington, VT

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2010-2012	Anna Haring	Physical Therapist, MGH
2010-2012	Tanya Zhuravleva	Graduate Student, Harvard University
2011-2014	Brittany Alperin	Graduate Student, Oregon Health and Science University
2012-2014	Katherine Mott	Research Assistant, MGH
2014-2016	Erich Tusch	Graduate Student, Boston University
2014-2015	Anne Fox	Manager, Physician Strategy, Genoa Telepsychiatry, New York, NY
2016-2018	Nicole Feng	Medical Student, Eastern Virginia Medical School
2016-2018	Hope Schwartz	Medical Student, University of California San Francisco Medical School
2016-2020	Adam Billig	Medical Student, SUNY Stonybrook Medical School
2017-	Hura Behforuzi, MD	Research Assistant, BWH
2019-	Taylor Krivanek	Research Assistant, BWH
2020-	Casey Nicastrì	Research Assistant, BWH

Formal Teaching of Peers

1991-	Intensive Review of Neurology HMS Dept. of Continuing Education	Boston, MA
1994-1997	Neurology for the Non-Neurologist HMS Dept. of Continuing Education	Boston, MA
1995-1996	Office Practice of Primary Care Medicine HMS Dept. of Continuing Education	Boston, MA
1995-1997	Comprehensive Review of Cerebrovascular Disorders HMS Dept. of Continuing Education	Boston, MA
1996	Primary Care for Subspecialists HMS Dept. of Continuing Education	Boston, MA
1996-2002	Comprehensive Review in Psychiatry and Neurology McLean Hospital Dept. of Postgraduate and Continuing Education	Boston, MA
1996-1998	Review of Geriatric Neurology HMS Dept. of Continuing Education	Boston, MA
1997-	Dementia: A Comprehensive Update	Boston, MA

	HMS Dept. of Continuing Education	
2007-	Neurology for the Non-Neurologist HMS Dept. of Continuing Education	Boston, MA
2010-2014	Intensive Review of Internal Medicine (IRIM0 HMS Dept. of Continuing Education	Boston, MA
2014-	Neuropsychiatry: A Comprehensive Update HMS Dept. of Continuing Education	Boston, MA
2015	Current Trends in Neurology/Psychiatry HMS Dept. of Continuing Education	Boston, MA

Local Invited Teaching Presentations

1992	Seminar in Behavioral Neurosciences Harvard-Longwood Area Program	
1994	Seminars in Behavioral Neurosciences Harvard-Longwood Area Program	
1995	Behavioral Neuroscience Seminars Behavioral Neurology, BWH	
1995	Grand Rounds Brigham and Women's Hospital	
1996	Behavioral Neuroscience Seminars Behavioral Neurology, BWH	
1997	Grand Rounds Neurology, BWH	
1998	Behavioral Neuroscience Seminars Behavioral Neurology, BWH	
2001	Grand Rounds Neurology, Harvard Longwood Area Program	
2001	Grand Rounds Department of Medicine, BWH-Faulkner Hospital	
2001	Behavioral Neuroscience Seminars Behavioral Neurology, BWH	
2002	Behavioral Neuroscience Seminars Behavioral Neurology, BWH	
2004	Faculty Forum Psychiatry, BWH	
2005	Neuroscience Research Forum Biomedical Research Institute, BWH	
2009	Behavioral Neuroscience Seminars	

Behavioral Neurology, BWH

2010-2012 Introduction to Neurobiology
Neurobiology 200, HMS

2014 Invited Speaker, Center for Brain/Mind Medicine Seminar Series
Departments of Neurology and Psychiatry, BWH

2015 Invited Speaker, Center for Brain/Mind Medicine Seminar Series
Departments of Neurology and Psychiatry, BWH

2016 Grand Rounds
Department of Psychiatry, Boston VA Healthcare System

2017 Invited Speaker, Center for Brain/Mind Medicine Seminar Series
Departments of Neurology and Psychiatry, BWH

Report of Regional, National and International Invited Teaching and Presentations

Regional Contributions

1990 Invited Speaker, Division of Human Development
Harvard University, Cambridge, MA

1990 Grand Rounds Speaker, Department of Rehabilitation Medicine
New England Sinai Hospital, Stoughton, MA

1991 Grand Rounds Speaker, Department of Medicine
Hale Hospital, Haverhill, MA

1991 Grand Rounds Speaker, Tufts University Affiliated Physical Medicine and
Rehabilitation Program
Tufts University, Medford, MA

1992 Invited Speaker
MA Neuropsychological Society

1996 Invited Speaker, Conference on Attention Deficit Disorders: Adults
Cambridge, MA

1997 Invited Speaker, First Annual Clinical Neurology Conference on Alzheimer's Disease
McLean Hospital, Belmont, MA

1999 Harvard Psychiatry Day: Cognitive Neuroscience Program
McLean Hospital, Belmont, MA

2000 Grand Rounds Speaker
Newton-Wellesley Hospital, Newton, MA

2001 Invited Speaker, Boston Alzheimer's Symposium: Interventions that Work
Boston, MA

2001 Grand Rounds Speaker
Norwood Hospital Department of Medicine, Norwood, MA

2001 Invited Speaker, Hydrocephalus Family Symposium
Hydrocephalus Foundation of MA

2001 Invited Speaker
Massachusetts Neuropsychological Society

2004 Invited Speaker
Boston Alzheimer's Resource Center, Boston, MA

2004 Invited Speaker, Cognitive Neuroscience Seminar
Tufts University, Medford, MA

2005 Grand Rounds
Department of Neurology, MGH

2007 Invited Speaker
Pri-Med Update for Neurologists

2007 Grand Rounds
Department of Neurology, MGH

2009 Grand Rounds
University Health Center, Harvard University

2009 Invited Speaker, Cognitive Neuroscience Lecture Series
Tufts University, Medford, MA

2013 Neuroscience Grand Rounds
Tufts University School of Medicine, Boston, MA

2014 Invited Speaker, Cognitive Science Colloquium
Tufts University, Medford, MA

2017 Grand Rounds, Cognitive Neurology Unit/Center for Noninvasive Brain Stimulation
Beth Israel Deaconess Hospital, Boston, MA

2019 Grand Rounds
Division of Gerontology, BIDMC, HMS

2019 Grand Rounds
Division of Geriatric Psychiatry, McLean Hospital, HMS

2020 Grand Rounds
Department of Neurology, BWH

2020 Invited Speaker
Massachusetts Medical Society, Senior Physician Dinner

National Contributions

1992 Faculty, American Academy of Neurology
San Diego, California

1995 Co-Chair, Scientific Session in Behavioral Neurology, American Academy of Neurology
Seattle, Washington

1997 Co-Chair, Scientific Session in Behavioral Neurology, American Academy of Neurology
Boston, Massachusetts

1999 Faculty, American Academy of Neurology
Toronto, Ontario, Canada

1999 Platform Presentation, American Academy of Neurology
Toronto, Ontario, Canada

2000 Visiting Professor
Neurological Associates of Eastern Maine

2001 Faculty, American Academy of Neurology
Philadelphia, Pennsylvania

2001 Platform Presentation, American Academy of Neurology
Philadelphia, Pennsylvania

2002 Faculty, American Academy of Neurology
Denver, Colorado

2003 Faculty, American Academy of Neurology
Honolulu, Hawaii

2003 Symposium Speaker, Harvard College 25th Reunion
Cambridge, MA

2004 Faculty, American Academy of Neurology
San Francisco, California

2004 Platform Presentation, Society for Neuroscience
San Diego, California

2005 Platform Presentation, Society for Neuroscience
Washington, D.C.

2006 Faculty, American Academy of Neurology
San Diego, California

2009 Course Director, Promoting Successful Cognitive Aging: Factors, Facts, and Fairytales,
American Academy of Neurology
Seattle, Washington

2009 Invited Speaker, Society for Behavioral and Cognitive Neurology
Seattle, Washington

2009 Invited Speaker, Baystate Medical Center Conference on Dementia
Springfield, Massachusetts

2010 Chairman, Topic Highlights, Cognitive and Behavioral Neurology, American Academy
of Neurology
Toronto, Canada

2010 Co-chair, Platform Session, Behavioral Neurology: From Genetics to Brain Function to
Behavior, American Academy of Neurology
Toronto, Canada

2011 Neurology Grand Rounds, University of Medicine and Dentistry of New Jersey
Newark, New Jersey

- 2011 Co-Chair, Platform Session, Anatomical Basis of Language Disorders, American Academy of Neurology
Honolulu, HI
- 2011 Co-Chair, Integrated Neuroscience Session, Cognitive Aging: Bench to Bedside, American Academy of Neurology
Honolulu, HI
- 2012 Co-Chair, Integrated Neuroscience Session, Non-memory Systems in the Brain, American Academy of Neurology
New Orleans, LA
- 2012 Co-Chair, Platform Session, Moving Toward Treatment, American Academy of Neurology
New Orleans, LA
- 2012 Invited Speaker, American Neurological Association Annual Meeting
Boston, MA
- 2013 Grand Rounds Speaker, Albert Einstein College of Medicine
New York, NY
- 2013 Topic Chair, Behavioral Neurology
AAN Science Committee
- 2013 Symposium Speaker, Harvard College 35th Reunion
Cambridge, MA
- 2015 Invited Speaker, Society for Behavioral and Cognitive Neurology Annual Meeting
Washington, DC
- 2016 Leader in the Field Presentation, American Neurological Association Annual Meeting
Baltimore, MD
- 2018 Invited Speaker, American Academy of Neurology, Experiential Learning
Los Angeles, CA
- 2018 Symposium Speaker, Harvard College 40th Reunion
Cambridge MA
- 2019 Keynote Speaker, National Alzheimer's Buddies Symposium
Cambridge, MA
- 2019 Invited Speaker, American Academy of Neurology, Experiential Learning
Philadelphia, PA

International Contributions

- 2005 Invited Speaker, 40 years of P300
2005 Carmel Meeting
- 2005 Invited Speaker, Turkish National Congress of Neuroscience
Mersin, Turkey
- 2006- Faculty of 1000 Medicine
- 2010 Invited Speaker, Congress on Aging and Cognition

Dortmund, Germany

- 2014 Invited Speaker, III Psychiatry Clinic Congress (Integrating Psychiatry, Neurosciences, Clinics and Public Health), São Paulo, Brazil
- 2014 Invited Speaker, Linnaeus University, Växjö, Sweden
- 2016 Invited Speaker, Linnaeus University, Växjö, Sweden

Leadership Roles

- | | | |
|-----------|--------------------------|---|
| 1994- | Director | Fellowship Program in Behavioral Neurology/Neuropsychiatry, BWH (one of the first programs accredited by the United Council of Neurologic Subspecialties) |
| 1994- | Organizer/Director | Behavioral Neuroscience Seminar Series, BWH |
| 1997 | Organizer/First Director | Dementia: A Comprehensive Update, HMS, Dept. of Continuing Education |
| 1998- | Co-Director | Dementia: A Comprehensive Update, HMS, Dept. of Continuing Education |
| 2009 | Director | Promoting Successful Cognitive Aging Course, AAN Annual Meeting |
| 2009- | Co-Director | Dementia, HMS online course, Dept. of Continuing Education |
| 2011 | Co-Director | Integrated Neuroscience Session, Cognitive Aging: Bench to Bedside, AAN Annual Meeting |
| 2012 | Co-Director | Integrated Neuroscience Session, Non-memory Systems in the Brain, AAN Annual Meeting |
| 2013 | Topic Chair | Behavioral Neurology, AAN Science Committee |
| 2014- | Co-Director | Neuropsychiatry: A Comprehensive Update, HMS, Dept. of Continuing Education |
| 2018-2019 | Director | Defining, Evaluating, and Promoting Healthy Cognitive Aging, AAN Annual Meeting |

Report of Clinical Activities and Innovations

Licensure and Certification

- 1985 Diplomate, National Board of Medical Examiners
- 1986 Massachusetts License Registration
- 1989 Diplomate, American Board of Psychiatry and Neurology

2010 Certification in Behavioral Neurology and Neuropsychiatry, United Council for Neurologic Subspecialties

Practice Activities

1988-1994	Outpatient behavioral neurology	Behavioral Neurology Unit, Beth Israel Hospital, Boston, MA	Two sessions per week
1988-1994	Neurology consultation or in-patient service	Department of Neurology, Beth Israel Hospital, Boston, MA	One month per year
1994-	Outpatient behavioral neurology	Division, Cognitive and Behavioral Neurology, BWH, Boston, MA	One session per week
1994-2013	Neurology consultation or in-patient service	Department of Neurology, BWH, Boston, MA	One-half to one month per year

Clinical Innovations

Division of Cognitive and Behavioral Neurology, BWH Developed a multidisciplinary team approach to complex clinical problems in cognitive/behavioral neurology and neuropsychiatry. The Division serves as a model for collaborative, interdisciplinary clinic neuroscience programs dedicated to patient care, training, and translational research. Former trainees have created programs modeled on their experience within our Division.

Report of Scholarship

Research Investigations

- 1) Hauser ST, **Daffner KR**. Ego functions and development: empirical research and clinical relevance. *McLean Hospital Journal* 1981; V: 87-109.
- 2) Rogers MP, Trentham DE, Dynesius-Trentham R, **Daffner KR**, Reich P. Exacerbation of collagen arthritis by noise. *Journal of Rheumatology* 1983; 10: 651-654.
- 3) **Daffner KR**, Saver JL, Biber MP. Lyme polyradiculoneuropathy presenting as increasing abdominal girth. *Neurology* 1990; 40: 373-375.
- 4) **Daffner KR**, Ahern GL, Weintraub S, Mesulam MM. Dissociated neglect behavior following sequential strokes in the right hemisphere. *Annals of Neurology* 1990; 28: 97-101.
- 5) Price BH, **Daffner KR**, Stowe RM, Mesulam MM. The comportmental learning disabilities of early frontal lobe damage. *Brain* 1990; 113: 1383-1393.
- 6) **Daffner KR**, Schomer D, Cosgrove R, Mesulam MM. Broca's aphasia following damage to Wernicke's area: for or against traditional aphasiology? *Archives of Neurology* 1991; 48: 766-768.

- 7) Sandson TA, **Daffner KR**, Carvalho PA, Mesulam MM. Frontal lobe dysfunction following infarction of the left-sided medial thalamus. *Archives of Neurology* 1991; 48: 1300-1303.
- 8) **Daffner KR**, Scinto LFM, Weintraub S, Guinessey J, Mesulam MM. Diminished curiosity in patients with probable Alzheimer's disease as measured by exploratory eye movements. *Neurology* 1992; 42: 320-328.
- 9) **Daffner KR**, Scinto LFM, Weintraub S, Guinessey J, Mesulam MM. The impact of aging on curiosity as measured by exploratory eye movements. *Archives of Neurology* 1994; 51: 368-376.
- 10) Scinto LFM, **Daffner KR**, Castro L, Weintraub S, Vavrik M, Mesulam MM. Impairment of spatially directed attention in patients with probable Alzheimer's disease as measured by eye movements. *Archives of Neurology* 1994; 51: 682-688.
- 11) Scinto LFM, **Daffner KR**, Dressler D, Ransil BI, Rentz D, Weintraub S, Mesulam M, Potter H. A potential non-invasive neurobiological test for Alzheimer's disease. *Science* 1994; 266: 1051-1054.
- 12) Weintraub S, **Daffner KR**, Ahern GL, Price BH, Mesulam MM. Right-sided hemispatial neglect and bilateral cerebral lesions. *Journal of Neurology, Neurosurgery, and Psychiatry* 1996; 60: 342-344.
- 13) Gitelman DR, Alpert NM, Kosslyn S, **Daffner KR**, Scinto L, Thompson W, Mesulam MM. Functional imaging of human right hemispheric activation for exploratory movements. *Annals of Neurology* 1996; 39: 174-179.
- 14) Manoach DS, Weintraub S, **Daffner KR**, Scinto LFM. Deficient antisaccades in the social-emotional processing disorder. *NeuroReport* 1997; 8: 901-905.
- 15) **Daffner KR**, Mesulam MM, Scinto LFM, Cohen L, Kennedy BP, West CW, Holcomb P. Regulation of attention to novel stimuli by frontal lobes: an event-related potential study. *NeuroReport* 1998; 9: 787-791.
- 16) **Daffner KR**, Mesulam MM, Cohen L, Scinto, LFM. Mechanisms underlying diminished novelty-seeking behavior in patients with probable Alzheimer's disease. *Neuropsychiatry, Neuropsychology, and Behavioral Neurology* 1999; 12: 58-66.
- 17) Scinto LFM, Wu CK, Firla KM, **Daffner KR**, Saroff D, Geula C. Focal pathology in the Edinger-Westphal nucleus explains pupillary hypersensitivity in Alzheimer's disease. *Acta Neuropathologica* 1999, 97: 557-564.
- 18) **Daffner KR**, Mesulam MM, Holcomb P, Calvo V, Acar D, Chabrierie A, Kikinis R, Jolesz FA, Rentz D, Scinto LFM. Disruption of attention to novel events after frontal lobe injury in humans. *Journal of Neurology, Neurosurgery, and Psychiatry* 2000, 68: 18-24.
- 19) Greenberg SM, Tennis MK, Brown LB, Gomez-Isla T, Hayden DL, Schoenfeld DA, Walsh KL, Corwin C, **Daffner KR**, Friedman P, Meadows ME, Sperling RA, Growdon JH. Donepezil therapy in clinical practice: a randomized crossover study. *Archives of Neurology* 2000, 57: 94-99.
- 20) **Daffner KR**, Mesulam MM, Scinto LFM, Acar D, Calvo V, Faust R, Chabrierie A, Kennedy B, Holcomb P. The central role of the prefrontal cortex in directing attention to novel events. *Brain* 2000, 123: 927-939.
- 21) Rentz DM, Calvo VL, Scinto LFM, Sperling RA, Budson AE, **Daffner KR**. Detecting early cognitive decline in high functioning elders. *Journal of Geriatric Psychiatry* 2000, 33: 27-48.

- 22) Budson AE, **Daffner KR**, Desikan R, Schacter DL. When false recognition is unopposed by true recognition: Gist-based memory distortion in Alzheimer's disease. *Neuropsychology* 2000, 14: 277-287.
- 23) **Daffner KR**, Scinto LFM, Calvo V, Mesulam MM, West WC, Holcomb P. The influence of stimulus deviance on electrophysiologic and behavioral responses to novel events. *Journal of Cognitive Neuroscience* 2000, 12: 393-406.
- 24) **Daffner KR**, Mesulam MM, Calvo V, Faust R, Scinto LFM, Holcomb P. An Electrophysiological Index of Stimulus Unfamiliarity. *Psychophysiology* 2000, 37: 737-747.
- 25) Sperling RA, Guttman CRG, Hohol MJ, Warfield SK, Jakab M, Parente M, Diamond EL, **Daffner KR**, Olek MJ, Orav EJ, Kikinis R, Jolesz F, Weiner HL. Regional MRI lesion burden and cognitive function in MS: a longitudinal study. *Archives of Neurology* 2001; 58: 115-121.
- 26) Budson AE, Desikan R, **Daffner KR**, Schacter DL. Perceptual false recognition in Alzheimer's disease: impairment of gist-based memory. *Neuropsychology* 2001; 15: 230-243.
- 27) **Daffner KR**, Rentz D, Scinto LFM, Faust R, Budson AE, Holcomb P. Pathophysiology underlying diminished attention to novel events in patients with early AD. *Neurology* 2001; 56: 1377-1383.
- 28) Scinto LFM, Frosch M, Wu CK, **Daffner KR**, Gedi N, Geula C. Selective cell loss in Edinger-Westphal in asymptomatic elders and Alzheimer's patients. *Neurobiology of Aging* 2001; 22: 729-736.
- 29) Budson AE, Sitarski J, **Daffner KR**, Schacter DL. False recognition of pictures versus words in Alzheimer's disease: the distinctiveness heuristic, *Neuropsychology* 2002; 16: 163-73.
- 30) Budson AE, Michalska KJ, Rentz RM, Joubert CC, **Daffner KR**, Schacter DL, Sperling RA. Use of false recognition paradigm in an Alzheimer's disease clinical trial: A pilot study. *American Journal of Alzheimer's Disease and Other Dementias* 2002; 17: 93-100.
- 31) Budson AE, Sullivan AL, Mayer E, **Daffner KR**, Black PM, Schacter DL. Suppression of false recognition in Alzheimer's disease and in patients with frontal lobe lesions. *Brain* 2002; 125: 2750-65.
- 32) **Daffner KR**, Scinto LFM, Weitzman AM, Faust R, Rentz DM, Budson AE, Holcomb PJ. Frontal and parietal components of a cerebral network mediating voluntary attention to novel events. *Journal of Cognitive Neuroscience* 2003; 15: 294-313.
- 33) Budson AE, Michalska KJ, Sullivan AL, Rentz DM, **Daffner KR**, Schacter DL. False recognition in Alzheimer's disease: evidence from categorized pictures. *Cognitive and Behavioral Neurology* 2003; 16: 16-27.
- 34) Budson AE, Sullivan AL, **Daffner KR**, Schacter DL. Semantic versus phonological false recognition in aging and Alzheimer's disease. *Brain and Cognition* 2003; 51: 251-261.
- 35) Goldmann RE, Sullivan AL, Droller DBJ, Rugg MD, Curran T, Holcomb PJ, Schacter DL, **Daffner KR**, Budson AE. Late frontal brain potentials distinguish true and false recognition. *NeuroReport* 2003; 14: 1717-1720.
- 36) Rentz DM, Huh TJ, Faust RR, Budson AE, Scinto LFM, Sperling RA, **Daffner KR**. Use of IQ-adjusted norms to predict progressive cognitive decline in highly intelligent elders. *Neuropsychology* 2004; 18: 38-49.

- 37) Budson AE, Simons JS, Sullivan AL, Beier JS, Solomon PR, Scinto LF, **Daffner KR**, Schacter DL. Memory and emotions for the 9/11/01 terrorist attacks in patients with Alzheimer's disease, mild cognitive impairment, and healthy older adults. *Neuropsychology* 2004; 18: 315-327.
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- 39) Wolk DA, Berman AR, Schacter DL, Holcomb PJ, **Daffner KR**, Budson AE. Event-related potential correlates of conceptual fluency in recognition memory. *Neuroscience Letters* 2004; 369: 150-5.
- 40) Budson AE, Dodson CS, Vatner JM, **Daffner KR**, Black PM, Schacter DL. Metacognition and false recognition in patients with frontal lobe lesions: The distinctiveness heuristic. *Neuropsychologia* 2005; 43: 860-871.
- 41) Budson AE, Dodson CS, **Daffner KR**, Schacter DL. Metacognition and false recognition in Alzheimer's disease: Further exploration of the distinctiveness heuristic. *Neuropsychology* 2005; 19: 253-258.
- 42) Budson AE, Droller DBJ, Dodson CS, Schacter DL, Rugg MD, Holcomb PJ, **Daffner, KR**. Electrophysiological dissociation of picture versus word encoding: The distinctiveness heuristic as a retrieval orientation. *Journal of Cognitive Neuroscience* 2005; 17: 1181-1193.
- 43) **Daffner KR**, Ryan KK, Williams DM, Budson AE, Rentz DM, Scinto LFM, Holcomb PJ. Age-related differences in novelty and target processing among cognitively high performing adults. *Neurobiology of Aging* 2005; 26: 1283-1295.
- 44) Wolk DA, Schacter DL, Berman AR, Holcomb PJ, **Daffner KR**, Budson AE. Patients with mild Alzheimer's disease attribute conceptual fluency to prior experience. *Neuropsychologia* 2005; 43: 1162-1172.
- 45) **Daffner KR**, Ryan KK, Williams DM, Budson AE, Rentz DM, Scinto LFM, Holcomb PJ. Age-sensitivity of the P3 in cognitively high performing adults: Unsettled issues. *Neurobiology of Aging* 2005; 26: 1301-1304.
- 46) Frenck-Mestre C, Meunier C, Espesser R, **Daffner KR**, Holcomb P. Perceiving non-native vowels: The effect of context on perception as evidenced by event-related brain potentials. *Journal of Speech, Language and Hearing Research* 2005; 48: 1496-1510.
- 47) **Daffner KR**, Ryan KK, Williams DM, Budson AE, Rentz DM, Wolk DA, Holcomb PJ. Age-related differences in attention to novelty among cognitively high performing adults. *Biological Psychology* 2006; 72: 67-77.
- 48) Rentz DM, Sardinha LM, Huh TJ, Searl MM, **Daffner KR**, Sperling RA. IQ-based Norms for Highly Intelligent Adults. *The Clinical Neuropsychologist* 2006; 20:637-48.
- 49) **Daffner KR**, Ryan KK, Williams DM, Budson AE, Rentz DM, Wolk DA, Holcomb PJ. Increased Responsiveness to Novelty is Associated with Successful Cognitive Aging. *Journal of Cognitive Neuroscience* 2006; 18: 1759-1773.
- 50) Wolk DA, Schacter DL, Lygizos M, Sen NM, Holcomb PJ, **Daffner KR**, Budson AE. ERP correlates of recognition memory: Effects of retention interval and false alarms. *Brain Research* 2006; 1096: 148-162.

- 51) **Daffner KR**, Chong H, Riis J, Rentz DM, Wolk DA. Cognitive status impacts age-related changes in attention to novel and target events in normal adults. *Neuropsychology* 2007; 21: 291-300.
- 52) Wolk DA, Schacter DL, Lygizos M, Sen NM, Chong H, Holcomb PJ, **Daffner KR**, Budson AE. ERP correlates of remember/know decisions: Association with the late posterior negativity. *Biological Psychology* 2007; 75: 131-135.
- 53) Rentz DM, Huh TJ, Sardinha LM, Moran EK, Becker JA, **Daffner KR**, Sperling RA, Johnson KA. Intelligence quotient-adjusted memory impairment is associated with abnormal SPECT perfusion. *Journal of the International Neuropsychological Society* 2007; 13: 821-831.
- 54) Riis JL, Chong H, Ryan KK, Wolk DA, Rentz DM, Holcomb PJ, **Daffner KR**. Compensatory neural activity distinguishes different patterns of normal cognitive aging. *NeuroImage*, 2008; 39: 441-454.
- 55) Chong H, Riis JL, McGinnis SM, Williams DM, Holcomb PJ, **Daffner KR**. To Ignore or Explore: Top Down Modulation of Novelty Processing. *Journal of Cognitive Neuroscience*, 2008; 20: 120-134.
- 56) **Daffner KR**, Sherman JC, Gonzalez RG, Hasserjian RP. A 65-year-old man with confusion and memory loss. Case Records of the Massachusetts General Hospital. *New England Journal of Medicine*, 2008; 359: 2155-64.
- 57) Wolk DA, Sen NM, Chong H, Riis JL, McGinnis SM, Holcomb PJ, **Daffner KR**. ERP correlates of item recognition memory: Effects of age and performance. *Brain Research*, 2009; 1250: 218-231.
- 58) Riis JL, Chong H, McGinnis S, Tarbi EC, Sun X, Holcomb PJ, Rentz, DM, **Daffner KR**. Age-related changes in early novelty processing as measured by ERPs. *Biological Psychology*, 2009; 82: 33-44.
- 59) **Daffner KR**. Promoting Successful Cognitive Aging: A Comprehensive Review. *Journal of Alzheimer's Disease*, 2010; 19: 1101-1122.
- 60) Chemali Z, Withall A, **Daffner KR**. The plight of caring for young patients with frontotemporal dementia. *American Journal of Alzheimer's Disease and Other Dementias*, 2010; 25: 109-115.
- 61) **Daffner KR**, Sun X, Tarbi EC, Rentz DM, Holcomb PJ, Riis JL. Does compensatory neural activity survive old-old age? *NeuroImage*, 2011; 54: 427-438.
- 62) **Daffner KR**, Chong H, Sun X, Tarbi EC, Riis JL, McGinnis SM, Holcomb PJ. Mechanisms underlying age and performance related differences in working memory. *Journal of Cognitive Neuroscience*, 2011; 23: 1298-1314.
- 63) Tarbi EC, Sun X, Holcomb PJ, **Daffner KR**. Surprise? Early visual novelty processing it not modulated by attention. *Psychophysiology*, 2011; 48: 624-632.
- 64) Perez DL, Larvie M, Acar D, **Daffner KR**. Teaching *NeuroImages*: Apathetic variant of frontotemporal dementia. *Neurology*, 2011; 77(20): e117.
- 65) **Daffner KR**, Zhuravleva T, Sun X, Tarbi E, Haring A, Rentz D, Holcomb P. Does modulation of selective attention to features reflect enhancement or suppression of neural activity? *Biological Psychology*, 2012; 89: 398-407.
- 66) Perez D, Barsky A, **Daffner KR**, Silbersweig D. Motor and Somatosensory Conversion Disorder: A Functional Unawareness Syndrome? *Journal of Neuropsychiatry and Clinical Neurosciences*, 2012; 24(2): 141-151.

- 67) **Daffner KR.**, Tarbi EC, Haring AE, Zhuravleva TY, Sun X, Rentz DM, Holcomb PJ. The influence of executive capacity on selective attention and subsequent processing. *Frontiers in Human Neuroscience*, 2012; 6, 167.
- 68) Perez D, Dickerson B, McGinnis S, Sapolsky D, Johnson K, Searl M, **Daffner KR.** You don't say: Dynamic Aphasia, Another Variant of Primary Progressive Aphasia? *Journal of Alzheimer's Disease*, 2013; 34: 139-144.
- 69) **Daffner KR**, Haring A, Alperin B, Zhuravleva T, Mott K, Holcomb P. The impact of visual acuity on age-related differences in neural markers of early visual processing. *NeuroImage*, 2012; 67, 127-136.
- 70) Haring AE, Zhuravleva TY, Alperin BR, Rentz DM, Holcomb PJ, **Daffner KR.** Age-related differences in enhancement and suppression of neural activity underlying selective. *Brain Research*, 2013; 1499: 69-79.
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- 72) **Daffner KR**, Alperin B, Mott K, Holcomb P. Age-related differences in the automatic processing of single letters: implications for selective attention. *NeuroReport*, 2014; 25(2), 77-82.
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- 75) Alperin BR, Mott KK, Holcomb PJ, **Daffner KR.** Does the age-related "anterior shift" of the P3 reflect an inability to habituate the novelty response? *Neuroscience Letters*, 2014; 557, 6-10.
- 76) Berkowitz AL, Rose MF, **Daffner KR**, Prasad, S. Clinical Reasoning: A 75 year-old man with three years of visual difficulties. *Neurology*, 2014; 83(17), e160-165.
- 77) Mott KK, Alperin BR, Holcomb PJ, **Daffner KR.** Age-related decline in differentiated neural responses to rare target versus frequent standard stimuli. *Brain Research*, 2014; 1587, 97-111.
- 78) Gale, S, Safar, L, Robbins, J, & **Daffner, KR.** Lateralized, nonepileptic convulsions in an adult with cerebral palsy: Case report and review of the literature. *Epilepsy Behav Case Rep*, 2015, 4, 104-107.
- 79) **Daffner KR**, Alperin BR, Mott KK, Tusch E, Holcomb PJ. Age-related differences in early novelty processing: Using PCA to parse the overlapping anterior P2 and N2 components. *Biological Psychology*, 2015; 105:83-94.
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- 81) Porto, FH, Fox, AM, Tusch ES, Sorond F, Mohammed AH, & **Daffner KR.** In vivo evidence for neuroplasticity in older adults. *Brain Research Bulletin*, 2015; 114, 56-61.
- 82) **Daffner KR**, Gale SA, Barrett AM, Boeve BF, Chatterjee A, Coslett HB, D'Esposito M, Finney GR, Gitelman DR, Hart JJ, Jr., Lerner AJ, Meador KJ, Pietras AC, Voeller KS, Kaufer DI. Improving

clinical cognitive testing: Report of the AAN Behavioral Neurology Section Workgroup. *Neurology*, 2015; 85, 910-18.

- 83) Alperin BR, Tusch ES, Mott KK, Holcomb PJ, **Daffner KR**. Investigating age-related changes in anterior and posterior neural activity throughout the information processing stream. *Brain and Cognition*, 2015; 99, 118-127.
- 84) Porto FHG, Tusch ES, Fox AM, Alperin B, Holcomb PJ, **Daffner KR**. One of the most well-established age-related changes in neural activity disappears after controlling for visual acuity. *NeuroImage*, 130, 115-122. E-pub 2016/01/31.
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- 89) Tusch ES, Feng NC, Holcomb PJ, **Daffner KR**. Task-irrelevant novel sounds have antithetical effects on visual target processing in young and old adults. *Frontiers in Aging Neuroscience*. 2017; 9:348.
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- 93) Ledreux A, K Hakansson, R Carlsson, M Kidane, L Columbo, Y Terjestam, E Ryan, E Tusch, B Winblad, **K Daffner**, AC Granholm, AKH Mohammed (2019) Differential Effects of Physical Exercise, Cognitive Training, and Mindfulness Practice on Serum BDNF Levels in Healthy Older Adults: A Randomized Controlled Intervention Study. *Journal of Alzheimer's Disease*. 2019; 17:1245-1261.
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Reviews, Chapters, Monographs, and Editorials

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- 2) Ahern GL, **Daffner KR**, Duffy JD, Mesulam MM. Selected topics in behavioral neurology. In: Hyman S and Jenicke MA, eds. *Manual of Clinical Problems in Psychiatry*. Boston, Little Brown, 1990.
- 3) Scinto LFM, **Daffner KR**, Dressler D, Rentz D, Ransil BI, Potter H. Hypersensitive pupillary dilation to a cholinergic antagonist as a diagnostic test for Alzheimer's disease. In: Iqbal K, Mortimer JA, Winblad B, Wisniewski HM, eds. *Research Advances in Alzheimer's Disease and Related Disorders*. New York, John Wiley & Sons, 1995.
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Narrative Report

I have succeeded in building a thriving interdisciplinary community at Harvard Medical School (HMS) that has promoted the highest level of innovative care, training, and research. I founded the Division of

Cognitive and Behavioral Neurology at BWH and serve as its Chief. Since our division was established in 1994, our staff has grown from four to over 60 individuals. We have become a major center of excellence for behavioral neurology and dementia. Our group of neurologists, neuropsychiatrists, geriatric psychiatrists, neuropsychologists, social workers, rehabilitation specialists, and researchers is dedicated to understanding and caring for patients with cognitive and behavioral disorders resulting from illnesses such as Alzheimer's disease, stroke, epilepsy, multiple sclerosis, brain tumors, head trauma, and developmental disorders. When the BWH created the Center for Brain/Mind Medicine to further develop a cohesive structure for the growing Divisions of Cognitive and Behavioral Neurology, Neuropsychiatry and Neuropsychology, I was selected to become its first Director. The unparalleled degree of collaboration across disciplines within our Center provides a model for interdisciplinary clinical neuroscience programs. Our vibrant academic community has fostered the growth of several related clinical research laboratories in event-related potentials (ERPs), fMRI, and neuropsychology that are investigating attention, executive functions, and memory in aging and dementia. We have also developed the Center for Alzheimer Research and Treatment that supports NIH-sponsored, industry-sponsored, and investigator-initiated translational research on dementia.

I was honored to serve as President of the Society of Behavioral and Cognitive Neurology and Chairman of the Behavioral Neurology Section of the American Academy of Neurology (AAN), both of which are leading national/international organizations in our field. This provided an excellent opportunity to help shape the future of our discipline. I also have served on the editorial boards of several prominent journals in our field, including the *Journal of Cognitive Neuroscience*, the *Journal of Alzheimer's Disease*, and the *Journal of Neuropsychiatry and Clinical Neuroscience*.

I initiated and direct the behavioral neurology/neuropsychiatry fellowship training program at BWH, which was one of the first to be accredited by the United Council of Neurological Subspecialties. We continue to attract outstanding candidates and have trained dozens of individuals who have launched careers as productive clinical investigators and expert clinicians. Many are developing programs of their own, modeled upon their experience within our Center, and have become recognized leaders in our field. In addition to being actively involved in the training of fellows, residents, and medical students, I interact with larger audiences when lecturing in a variety of settings, including national meetings. I have directed courses at the AAN, chaired platform and integrated neuroscience sessions at the annual meetings and served as the topic chair of behavioral neurology for the AAN Science Committee. In 1997, I became the founding director of the annual HMS course on Dementia and in 2014 I helped establish the annual HMS course on Neuropsychiatry. Both courses have reliably attracted hundreds of participants from around the country and the world.

My research has focused on the neurological foundations of executive control functions and attention to novelty, as well as changes in these processes associated with normal aging and neurological disease. Our work takes advantage of the exquisite temporal resolution of event-related potentials (ERPs) that measures neural activity as it unfolds at a subsecond level. Through combined behavioral and ERP measures in normal and focally brain-injured subjects, we have demonstrated that the prefrontal cortex plays a central role in the allocation of attentional resources to novel events, whereas the posterior parietal cortex provides the neural substrate for updating one's internal model of the environment to account for salient events.

Kirk R. Daffner, MD, FAAN

As increasing numbers of Americans are living to advanced ages, understanding what allows older adults to sustain meaningful levels of intellectual functioning and independence has become a major public health issue. Our laboratory has been dedicated to investigating how information processing of cognitively 'successful' older individuals differs from that of cognitively less successful ones. We were the first group to show that cognitively high performers are more engaged by novelty than cognitively average performers, especially as individuals get older. High performing older adults handle age-related declines in neurophysiological functioning by appropriating additional capacity-limited resources. Work in our lab also suggests that there are substantial age-associated changes in early, relatively automatic aspects of information processing. Changes of these early operations may place an increased burden on subsequent controlled decision-making processes. Moreover, we have demonstrated that age-related impairments in peripheral sensory functions help account for declines in cognitive processing. A shared pool of processing resources is used to mediate cognitive operations and manage the processing of degraded visual images. This puts older adults at risk for depleting their limited resources just to decode visual information and underscores the potential importance of optimizing vision in older adults to help mitigate age-associated cognitive decline. Recently, we have extended our research program to include structured interventions (e.g., cognitive or physical training) and the use of health coaches and mobile technology to augment brain healthy behaviors and improve cognitive functions.

A handwritten signature in blue ink that reads "Kirk R. Daffner, M.D.".